

Date: Mon, 12 Apr 93 22:00:42 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #454
To: Info-Hams

Info-Hams Digest Mon, 12 Apr 93 Volume 93 : Issue 454

Today's Topics:

10meters
10m is dead?
AA4RE BBS Mailing list
A New DSP Rebutal
A new DSP rep
Buying Radio Equip in Asia
Cable TVI interference (2 msgs)
Daily Solar Geophysical Data Broadcast for 11 April
Doppler Equipment (was: want jammer in slammer)
Gap Eagle - Experiences?
Icom2410 or Icom3230?
Manual needed
N0DH's *REAL* Address(QSL Mgr V44KI/V44KAA)
NASA SELECT (Summary)
NASA SELECT rebroadcast frequencies
Postings
R5/R7 Antenna questions...
Rec.radio.reorg won't work, anyway.
Space Bulletin 016 ARLS016

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 13 Apr 93 00:03:10 GMT
From: news-mail-gateway@ucsd.edu
Subject: 10meters
To: info-hams@ucsd.edu

Someone writes:

=====

AM and FM operations - OK so I'm not PC in posting my advocacy of using these 'more spectrum intensive' modes...big deal, they are a lot of fun ...

=====

I never even thought of working FM on 10m until I worked V73CT on 10m FM one evening. Full-quieting FM from Kwajalein was really cool.

N6MZ mikemr@microsoft.com

Date: Mon, 12 Apr 1993 16:35:04 GMT
From: usc!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!m2.dseg.ti.com!ernest!cmptrc!mitch@network.UCSD.EDU
Subject: 10m is dead?
To: info-hams@ucsd.edu

I've just recently worked both coasts from the novice portion of the 10 meter bands. Also have worked Haweii, argentina, caymen islands, spain, portegul, and several other central and south america countries. Not to bad for all SSB work.

(gotta get my code back up to snuff!)

Mitcheal
KA5SOI
(tech+ upgrading to general and beyond!)

Date: 13 Apr 93 04:13:45 GMT
From: news-mail-gateway@ucsd.edu
Subject: AA4RE BBS Mailing list
To: info-hams@ucsd.edu

Thanks to Chris Spell <spell@seq.uncwil.edu>, there is now a mailing list for AA4RE BBS program sysops. I hope all will subscribe. It should be very helpful to all of us.

Roy, AA4RE

- - - -

To send a message to the mailing list send it to:

aa4re@matsci2.uncwil.edu

- - - -

To subscribe to the mailing list a user needs to send a message to:

aa4re-request@matsci2.uncwil.edu

With the following in the body of the message:

subscribe aa4re your_account_name@your.address.whereever

- - - -

To unsubscribe one would send this text in the message:

unsubscribe aa4re your_account_name@your.address.whereever

Date: Mon, 12 Apr 1993 17:21:18 GMT

From: usc!zaphod.mps.ohio-state.edu!news.acns.nwu.edu!nucsr1!tellab5!
jwa@network.UCSD.EDU

Subject: A New DSP Rebutal

To: info-hams@ucsd.edu

In Article: 28187 of rec.radio.amateur.misc (Subject: Re: A New DSP)

Date: 9 Apr 93 13:52:52 GMT

michael@vk2bea.UUCP (Michael G. Katzmann) replied to article

<1993Apr2.144727.29661@tellab5.tellabs.com> jwa@tellabs.com (John W. Albert)

>

> A NEW DSP FOR PACKET

>Pre-filtering

>

>The first function is a sixth order Chebyshev bandpass filter. The
>filter reduces noise and improves the performance of the A.G.C.

Chebyshev filter??? This will really mess up the data! You want to
maintain the integrity of the data, but the poor group delay response
of this filter will create alot of intersymbol interference. Surely
a Bessel, FIR or other linear phase filter is what should be used.
(or have I miss-understood the use of this device??)

Heres my reply

We selected the the Chebyshev filter because it has the best rejection
in the stopband. Because the modem was designed for the crouded H.F.
packet frequencies, we needed the best filter that provided out of band
rejection. It's true that the filter has poor group delay but we found

(using computer simulation) that different filter types performed about the same. Another filter may have better group but you sacrifice the stopband rejection.

Chebyshev filter are some what linear within the bandpass, however, the group delay is non-linear at the band edges. We simply normalized it to obtain the best of two worlds.

Not mentioned in the article was (it appeared in the Oct 92 issue of QEX) a new filter called the "Bowtie" which is used in the channel filters (Discriminator circuit). The Bowtie uses two two pole bandpass filters (usually state variable types) In the mark and space channel to provide maximum separation and linear phase. An article will appear in future issue of QEX.

Jack Albert	Fellow Radio Buff
Tele (708) 512-7854	
Tellabs, Inc.	FAX (708) 852-7346
4951 Indiana Ave.	jwa@tellabs.com
Lisle, IL	
60532	

Do you have a certain itch that's so private,
you'll only discuss it with your physician?

Date: Mon, 12 Apr 1993 13:19:06 GMT
From: usc!zaphod.mps.ohio-state.edu!news.acns.nwu.edu!nucsr1!tellab5!
jwa@network.UCSD.EDU
Subject: A new DSP rep
To: info-hams@ucsd.edu

in Article: 4294 of rec.radio.amateur.packet
jack@larc.nasa.gov (Jack Dunn) replies to
article 26676@tellab5.tellabs.com, jwa@tellabs.com (John W. Albert) writes:

>In case your interested in DSP's Here is an article that
>I wrote, that appeared in the January 92 issue of QEX
>
>
>A NEW DSP FOR PACKET
>where around for about 25 years. In the 90's, it appears that

>the hottest item is the DSP. Again the technology has been around
>for about twenty years and it's finally making it's way into the

Where and for how much can this board be purchased?

Jack Dunn
N4NEM

The DSP25 will be available from Willco Electronics
P.O. Box 788 New Lenox, IL 60451.

Jack Albert Fellow Radio Buff
 Tele (708) 512-7854
Tellabs, Inc. FAX (708) 852-7346
4951 Indiana Ave. jwa@tellabs.com
Lisle, IL
60532

Do you have a certain itch that's so private,
you'll only discuss it with your physician?

Date: 13 Apr 93 01:17:50 GMT
From: usc!howland.reston.ans.net!noc.near.net!das-news.harvard.edu!logicse!
usenet.ee.pdx.edu!fastrac.llnl.gov!lll-winken.llnl.gov!unixhub!slacvm!
mgb@network.UCSD.EDU
Subject: Buying Radio Equip in Asia
To: info-hams@ucsd.edu

I will be traveling to Bancoock, Singapore, Seol, and Hong Kong next month
and would appreciate any advice on things to be aware of, places to
buy, and not to buy, what is good or not good, and any other pearls of
wisdom to heed during the trip. At this point an HF power supply and
a HF linear for my Yaseu 890 AT are top on my mind. A 2/440 detachable
face mobil are also in consideration.

Date: Mon, 12 Apr 1993 20:08:56 GMT
From: swrinde!zaphod.mps.ohio-state.edu!saimiri.primite.wisc.edu!sal.wisc.edu!
larry.sal.wisc.edu!sde@network.UCSD.EDU
Subject: Cable TVI interference
To: info-hams@ucsd.edu

Before getting too excited about the cable company's maintenance, etc., be sure the interference problem isn't caused by RF getting into the TV receiver on the cable shield. Wrapping a few turns of the cable around the TVI is related to harmonic operation. If the cable channel is not a harmonic (or the fundamental) of the transmitting frequency, the TVI is probably not caused by leakage.

Scott Ellington K9MA
sde@larry.sal.wisc.edu

Date: 12 Apr 93 22:37:39 GMT
From: zds-ux!bjstaff@uunet.uu.net
Subject: Cable TVI interference
To: info-hams@ucsd.edu

This weekend, while visiting my in-laws in Madison, Wisconsin, I noticed that one of the cable channels was being interfered with from time to time. Just for the heck of it, I grabbed my 2m HT and repeater directory, set my HT to each Madison repeater's output, and waited. Bingo! Each time a certain repeater transmitted, the cable got messed up. Needless to say, I haven't shared my discovery with the in-laws yet. :-)

73,

```
+=====+
| Brad Staff                616-982-5791 (tel)      |
| Zenith Data Systems       616-982-5997 (fax)      |
| Hilltop Road              b.staff@zds.com        |
| St. Joseph, MI 49085      aa8if                 |
+=====+
```

Date: 12 Apr 93 23:45:20 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 11 April
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 101, 04/11/93
10.7 FLUX=118.8 90-AVG=133 SSN=090 BKI=3311 2223 BAI=009
BGND-XRAY=B6.2 FLU1=1.4E+06 FLU10=9.7E+03 PKI=3321 2222 PAI=009
BOU-DEV=020,034,009,006,015,019,019,021 DEV-AVG=017 NT SWF=00:000
XRAY-MAX= C8.9 @ 0616UT XRAY-MIN= B4.7 @ 0824UT XRAY-AVG= B8.8
NEUTN-MAX= +002% @ 1720UT NEUTN-MIN= -002% @ 1110UT NEUTN-AVG= +0.1%
PCA-MAX= +0.1DB @ 2315UT PCA-MIN= -0.3DB @ 0010UT PCA-AVG= -0.0DB

BOUTF-MAX=55409NT @ 0440UT BOUTF-MIN=55366NT @ 1927UT BOUTF-AVG=55394NT
GOES7-MAX=P:+124NT@ 1903UT GOES7-MIN=N:+000NT@ 0410UT G7-AVG=+087,+044,+011
GOES6-MAX=P:+137NT@ 1606UT GOES6-MIN=N:-110NT@ 0417UT G6-AVG=+099,-008,-053
FLUXFCST=STD:115,115,110;SESC:115,115,110 BAI/PAI-FCST=005,005,010/015,015,010
KFCST=2225 4221 2225 4221 27DAY-AP=054,028 27DAY-KP=4476 6435 5454 3453
WARNINGS=*SWF
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 10 APR 93 was 59.0.
The Full Kp Indices for 10 APR 93 are: 5- 4o 4o 4- 3- 3- 3- 3-

Date: Mon, 12 Apr 1993 17:37:37 GMT
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!
news1.boi.hp.com!hp-pcd!hplsla!tomb@network.UCSD.EDU
Subject: Doppler Equipment (was: want jammer in slammer)
To: info-hams@ucsd.edu

weaverb@spot.Colorado.EDU (Brian Weaver) writes:

>kd1hz@anomaly.sbs.com (Michael P. Deignan) writes:
>
>>Speaking of wanting jammers in the slammer, we have several in this area
>>I would like to catch. Can anyone recommend some decent Doppler direction
>>finding equipment?
>
> Commerical doppler units run about \$800.00-\$1000.00. We build
>one for about \$100.00 but it was so much of a pain in the a** to
>get it working that I would probably never build another one. You
>should be able to track the jammers down with nothing more than
>a yagi if they are on the air that much.

I built one following the design described in May 78 QST, and had no trouble getting it to work. It's done fine every time I've used it in the past 15 years... I do wonder where you easily get appropriate PIN diodes now; I don't think the Motorola ones used in that article are available now. A doppler scanning antenna (as described in that article) is IMHO much easier to use than the "double duckie" type.

73, K7ITM

Date: 12 Apr 93 17:17:47 GMT
From: usc!howland.reston.ans.net!bogus.sura.net!udel!news.intercon.com!psinntp!

gdc!gallaghe@network.UCSD.EDU
Subject: Gap Eagle - Experiences?
To: info-hams@ucsd.edu

I am thinking of purchasing the GAP Eagle DX-VI and I am wondering if anyone has used this antenna?

Thanks in advance,

Rob - KD1MF

--

* *
* Robert Gallagher *
* email - gallagher@gdc.com *
* tele: (203) 574-1118 ext. 6442 *
* *

Date: 12 Apr 1993 23:50:01 GMT
From: swrinde!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
sol.ctr.columbia.edu!destroyer!vela.acs.oakland.edu!argo.acs.oakland.edu!
SDKUO@network.UCSD.EDU
Subject: Icom2410 or Icom3230?
To: info-hams@ucsd.edu

I'm ready to purchase a dual-bander rig and have it narrowed down to two units; the Icom2410 or Icom3230. From what I have gathered these are the differences. The 2410 can receive two VHF or UHF frequencies at the same time, the 3230 cannot. The 2410 has electronic squelch where as the 3230 is knob controlled. The 2410 has a more elaborate remote cross band repeat function than the 3230 (is this true?). For only \$70 more, I'm wondering if the 2410 is worth it. Any feedback on both of the units would be appreciated.

thanks in advance,

Steve Kuo, N80PH, sdkuo@oakland.edu

Date: 12 Apr 1993 22:08:07 GMT
From: sdd.hp.com!ux1.cso.uiuc.edu!usenet.ucs.indiana.edu!master.cs.rose-hulman.edu!master.cs.rose-hulman.edu!news@network.UCSD.EDU

Subject: Manual needed
To: info-hams@ucsd.edu

Anybody have a manual for a Regency 2-meter Transcan?

Would like a copy, please. TNX VY MCH

Jack Derry, K9CUN
810 S. 34th Street
Terre Haute IN 47803

derry@nextwork.rose-hulman.edu

Date: 12 Apr 1993 21:46:37 -0400
From: usc!howland.reston.ans.net!noc.near.net!genrad.com!genrad.com!not-for-mail@network.UCSD.EDU
Subject: N0DH's *REAL* Address(QSL Mgr V44KI/V44KAA)
To: info-hams@ucsd.edu

Dave, N0DH, is a neighbour of mine and has asked me to post his new address for those who need a QSL from V44KI and V44KAA.

David Henderson, 4010 Sequoia Trail East, Georgetown TX 78628.

please include the customary S.A.S.E.

73 Trevor G3WQO AB5EU etc.

Date: Tue, 13 Apr 1993 04:32:28 GMT
From: sdd.hp.com!ux1.cso.uiuc.edu!news.cso.uiuc.edu!uxa.cso.uiuc.edu!jtg0707@network.UCSD.EDU
Subject: NASA SELECT (Summary)
To: info-hams@ucsd.edu

Thanks for all the replies.

STS-56 is schedule to come down in a few days; I'll be much obliged of people living in parts of the country try out the frequencies and let me know if there are any mistakes. Right now, the list is exactly one day old.

For the people who have send me mail from packet about the list. I am sorry , I don't have packet capability. You will have to ask someone else you know to get the list.

Keep sending those frequencies!!!!
jtg0707@uxa.cso.uiuc.edu
N9RRD

Date: 12 Apr 1993 17:43:48 GMT
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net
Subject: NASA SELECT rebroadcast frequencies
To: info-hams@ucsd.edu

NASA SELECT is not the proper term here. NASA SELECT is the video feed. Goddard (and probably some of the other retransmission sites at NASA installations) get their audio through a different network. If you bring up WA3NAN audio while you're watching NASA SELECT, you'll notice quite a delay in the NASA SELECT audio.

-Ron

Date: 13 Apr 93 02:39:40 GMT
From: news-mail-gateway@ucsd.edu
Subject: Postings
To: info-hams@ucsd.edu

I have this question:

Why hasn't my last post to this list been posted or is it that this list is slow after all.

Tim Wright KD40VM

BITNET: WRIGHT@morekypr.BITNET
PACKET: KD40VM@N0ARY.#NOCAL.CA.USA.NA

Date: 12 Apr 1993 18:25:38 GMT
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net
Subject: R5/R7 Antenna questions...
To: info-hams@ucsd.edu

> Also what about the wind resistance
> will it bend over??? How did it perform ???

Ours made it through very high winds recently (trees were blowing down around it). It's pretty floppy (you can see that just by shaking it)

but it seems to ride out the storms pretty well. There are at least four others in the neighborhood that went without problems as well.

-Ron

Date: Mon, 12 Apr 93 19:33:52 PDT
From: destroyer!cs.ubc.ca!mala.bc.ca!oneb!ham!emd@uunet.uu.net
Subject: Rec.radio.reorg won't work, anyway.
To: info-hams@ucsd.edu

mark@ve6mgs.ampr.org (Mark G. Salyzyn) writes:

>
> What emd is *really* complaining about here is the fact he runs a
> DOS BBS package that has serious problems with cross-postings, not with
> r.r.a.policy specifically. He has fears that cross-posting will
> increase (and this increase his problems). What really needs to happen
> here is for some pressure to be placed on the authors of WAFFLE and
> the like to add in some of the capabilities of the popular news readers,
> since Waffle is typically used as an off line news reader anyways ...
>

Mark, you're obviously NOT reading the news. I acknowledged a week ago that I was wrong about the number of articles actually cross-posted to r.r.a.policy, after Jay pointed it out. I SUPPORT the split. I am already convinced that the split willll not cause an appreciable increase in cross-posting. (With the probable exception of stuff cross posted to r.r.info, :-()

> If I had a Waffle site downstream of me, and if it were a leaf site, I'd
> have no problems providing the filtering services, but this can be done
> on your site too Robert (replace rnews with a simple BASIC program that
> filters the articles, 'adjusting' the Newsgroups filed if necessary, then
> calling the *real* rnews). The process is a simple text filter and should
> be capable of providing your own Universe. If you are not capable of doing
> this on your own, send me email and I will investigate and help you with
> this problem (I have made this offer twice in previous postings, and in one
> private email to you Robert).
>
> Ciao -- Mark

Duplicate articles are not "a serious problem". They are a darn nuisance that I put up with at the expense of wasted space on my hard drive. Someone else in this discussion has already pointed out that there is a program to kill duplicate articles for Waffle DOS boxes, but that only works if you are the sole reader of news on your machine. And second,

that fails to deal at all with the readers of mailing lists.

I've already said that I support the split, and basically prefer Option 1, with the addition of r.r.a.antennas.

The attitude of some in this discussion, however, that those not running the latest software, or UNIX, or who are on mailing lists do not deserve to have their interests considered whatever, is not generating support for your position.

Robert Smits
VE7EMD
Ladysmith B.C.
e-mail: emd@ham.almanac.bc.ca

There is *no* idiotproof filter.
Idiots are proof against anything!
- Richard Chycoski, VE7CVS

Date: Tue, 13 Apr 93 02:30:18 GMT
From: swrinde!zaphod.mps.ohio-state.edu!mstar!n8emr!bulletin@network.UCSD.EDU
Subject: Space Bulletin 016 ARLS016
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

ZCZC AS95
QST de W1AW
Space Bulletin 016 ARLS016
>From ARRL Headquarters Newington, CT
April 12, 1993
Relayed by KB8NW/OBS & BARF-80 BBS
To all radio amateurs

SB SPACE ARL ARLS016
ARLS016 STS-56 elements

The following represents the latest Keplerian Element Set as generated by Ron Parise, WA4SIR at the Goddard Space Flight Center.

STS-56
1 22621U 93 23 A 93101.42729449 0.00057240 00000-0 17184-3 0 112
2 22621 57.0073 164.1203 0006381 283.1092 76.9272 15.91824663 522

Satellite: STS-56
Catalog number: 22621

Epoch time:	93101.42729449	(11 APR 93 10:15:18.24 UTC)
Element set:	GSFC-011a	
Inclination:	57.0073 deg	
RA of node:	164.1203 deg	Space Shuttle Flight STS-56
Eccentricity:	0.0006381	Keplerian Elements
Arg of perigee:	283.1092 deg	
Mean anomaly:	76.9272 deg	
Mean motion:	15.91824663 rev/day	Semi-major Axis: 6675.3091 Km
Decay rate:	0.57E-03 rev/day sq	Apogee Alt: 301.18 Km
Epoch rev:	52	Perigee Alt: 292.66 Km

NOTE - This element set is based on NORAD element set number 011.
 The spacecraft has been propagated to the next ascending
 node, and the orbit number has been adjusted to bring it
 into agreement with the NASA numbering convention.

Submitted by Frank Bauer, KA3HDO for the SAREX Working Group
 E-mail: ka3hdo at amsat.org
 NNNN

 Date: Mon, 12 Apr 93 22:05:23 GMT
 From: sdd.hp.com!ncr-sd!SanDiego.NCR.COM!torynews!kevin@network.UCSD.EDU
 To: info-hams@ucsd.edu

References <1993Apr8.231951.12321@Princeton.EDU>, <fv15_sn@rpi.edu>,
 <1993Apr11.214831.11089@cbnewsm.cb.att.com>/
 Subject : Re: Shuttle Audio broadcast?

In article <1993Apr11.214831.11089@cbnewsm.cb.att.com> cram@cbnewsm.cb.att.com
 (donald.cram.smith) writes:

>In article <fv15_sn@rpi.edu> grossm@rpi.edu writes:
 >>

>>In article <1993Apr8.231951.12321@Princeton.EDU>, kornblum@phoenix.Princeton.EDU
 (Aaron Ethan Kornblum) writes:

>>|> In article <1q26v4INN2gd@hpsdl1136.sdd.hp.com> craigb@sdd.hp.com (Craig
 Bosworth) writes:

>>|> >(Hopefully limited to San Diego distribution...)

>>|> >

>>|> >Is the Shuttle audio being broadcast in the San Diego area? Does

>>|> >anyone know what frequency?

>>|> >Replies in email, please. I will post answers to sdnets distribution.

>>|>

>>|> Well, since your message made it this far, how about frequencies in the

>>|> metropolitan New York/New Jersey/Philadelphia areas?...

>>|>

>>|>
>>|> -Aaron Kornblum
>>|> Princeton University
>>|> kornblum@phoenix.princeton.edu
>>|>
>>
>>How 'bout the Capital District of New York (Albany, Schenectady Troy)??
>
>I listen to the shuttle on 443.400 Mhz in the central Jersey area.

Sheeeeeesh! I live in San Diego and I still haven't gotten the
original post :-(

--
Kevin Sanders, KN6FQ NCR Torrey Pines
kevin.sanders@torreypinesca.ncr.com (619) 597-3602
kevin%beacons@cyber.net

End of Info-Hams Digest V93 #454
